



IFWO

RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/674,159A

TIME: 11:00:54

Input Set : A:\Mit-0506.ST25.txt

Output Set: N:\CRF4\08022004\J674159A.raw

3 <110> APPLICANT: Chen, Jianzhu
 4 Ge, Qing
 5 Eisen, Herman
 7 <120> TITLE OF INVENTION: Influenza Therapeutic
 9 <130> FILE REFERENCE: 0492611-0506
 11 <140> CURRENT APPLICATION NUMBER: 10/674,159A
 12 <141> CURRENT FILING DATE: 2003-09-29
 14 <160> NUMBER OF SEQ ID NOS: 271
 16 <170> SOFTWARE: PatentIn version 3.2
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 21
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Influenza virus Type A PB2 segment
 23 <400> SEQUENCE: 1
 24 aatcaagaag tacacatcag g
 27 <210> SEQ ID NO: 2
 28 <211> LENGTH: 21
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Influenza virus type A PB2 segment
 32 <400> SEQUENCE: 2
 33 aagtacacat caggaagaca g
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 21
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Influenza virus type A PB2 segment
 41 <400> SEQUENCE: 3
 42 aatggatgat ggcaatgaaa t
 45 <210> SEQ ID NO: 4
 46 <211> LENGTH: 21
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Influenza virus type A PB2 segment
 50 <400> SEQUENCE: 4
 51 aattacagca gacaagagga t
 54 <210> SEQ ID NO: 5
 55 <211> LENGTH: 21
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Influenza virus type A PB2 segment
 59 <400> SEQUENCE: 5
 60 aacttactca tcgtcaatga t
 63 <210> SEQ ID NO: 6
 64 <211> LENGTH: 21
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Influenza virus type A PB2 segment

A rectangular stamp with a thick black border and the word "ENTERED" in bold, capital letters in the center.

21

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72 <210> SEQ ID NO: 7
73 <211> LENGTH: 21
74 <212> TYPE: DNA
75 <213> ORGANISM: Influenza virus type A PB2 segment
77 <400> SEQUENCE: 7
78 aagcatcaat gaactgagca a 21
81 <210> SEQ ID NO: 8
82 <211> LENGTH: 21
83 <212> TYPE: DNA
84 <213> ORGANISM: Influenza virus type A PB2 segment
86 <400> SEQUENCE: 8
87 aaggagacgt ggtgttgga a 21
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 21
92 <212> TYPE: DNA
93 <213> ORGANISM: Influenza virus type A PB2 segment
95 <400> SEQUENCE: 9
96 aacgggactc tagcatactt a 21
99 <210> SEQ ID NO: 10
100 <211> LENGTH: 21
101 <212> TYPE: DNA
102 <213> ORGANISM: Influenza virus type A PB2 segment
104 <400> SEQUENCE: 10
105 aagaattcgg atggccatca a 21
108 <210> SEQ ID NO: 11
109 <211> LENGTH: 21
110 <212> TYPE: DNA
111 <213> ORGANISM: Influenza virus type A PB1 segment
113 <400> SEQUENCE: 11
114 aagcaggcaa accatttgaa t 21
117 <210> SEQ ID NO: 12
118 <211> LENGTH: 21
119 <212> TYPE: DNA
120 <213> ORGANISM: Influenza virus Type A PB1 segment
122 <400> SEQUENCE: 12
123 aaccatttga atggatgtca a 21
126 <210> SEQ ID NO: 13
127 <211> LENGTH: 21
128 <212> TYPE: DNA
129 <213> ORGANISM: Influenza virus type A PB1 segment
131 <400> SEQUENCE: 13
132 aatccgacct tacttttctt a 21
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136 <211> LENGTH: 21
137 <212> TYPE: DNA
138 <213> ORGANISM: Influenza virus type A PB1 segment
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141 aagtgccagc acaaaatgct a 21
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155 <212> TYPE: DNA
156 <213> ORGANISM: Influenza virus type A PB1 segment
158 <400> SEQUENCE: 16
159 aatgttctca acaaaatgg c 21
162 <210> SEQ ID NO: 17
163 <211> LENGTH: 21
164 <212> TYPE: DNA
165 <213> ORGANISM: Influenza virus type A PB1 segment
167 <400> SEQUENCE: 17
168 aatgatgatg ggcatttca a 21
171 <210> SEQ ID NO: 18
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173 <212> TYPE: DNA
174 <213> ORGANISM: Influenza virus type A PB1 segment
176 <400> SEQUENCE: 18
177 aagatctgtt ccaccattga a 21
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181 <211> LENGTH: 21
182 <212> TYPE: DNA
183 <213> ORGANISM: Influenza virus type A PA segment
185 <400> SEQUENCE: 19
186 aagcaggtac tgatccaaaa t 21
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191 <212> TYPE: DNA
192 <213> ORGANISM: Influenza virus type A PA segment
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199 <211> LENGTH: 21
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201 <213> ORGANISM: Influenza virus type A PA segment
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204 ttgtgagaca atgcttcaat c 21
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208 <211> LENGTH: 21
209 <212> TYPE: DNA
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213 aatgcttcaa tccgatgatt g 21

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Input Set : A:\Mit-0506.ST25.txt

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216 <210> SEQ ID NO: 23
217 <211> LENGTH: 21
218 <212> TYPE: DNA
219 <213> ORGANISM: Influenza virus type A PA segment
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222 aatccgatga ttgtcgagct t 21
225 <210> SEQ ID NO: 24
226 <211> LENGTH: 21
227 <212> TYPE: DNA
228 <213> ORGANISM: Influenza virus type A PA segment
230 <400> SEQUENCE: 24
231 aacaaatttg cagcaatatg c 21
234 <210> SEQ ID NO: 25
235 <211> LENGTH: 21
236 <212> TYPE: DNA
237 <213> ORGANISM: Influenza virus type A PA segment
239 <400> SEQUENCE: 25
240 aagagacaat tgaagaaagg t 21
243 <210> SEQ ID NO: 26
244 <211> LENGTH: 21
245 <212> TYPE: DNA
246 <213> ORGANISM: Influenza virus type A PA segment
248 <400> SEQUENCE: 26
249 tagagcctat gtggatggat t 21
252 <210> SEQ ID NO: 27
253 <211> LENGTH: 21
254 <212> TYPE: DNA
255 <213> ORGANISM: Influenza virus type A PA segment
257 <400> SEQUENCE: 27
258 aacggctaca ttgagggcaa g 21
261 <210> SEQ ID NO: 28
262 <211> LENGTH: 21
263 <212> TYPE: DNA
264 <213> ORGANISM: Influenza virus type A PA segment
266 <400> SEQUENCE: 28
267 aaccacacga aaaggaata a 21
270 <210> SEQ ID NO: 29
271 <211> LENGTH: 21
272 <212> TYPE: DNA
273 <213> ORGANISM: Influenza virus type A PA segment
275 <400> SEQUENCE: 29
276 aacctgggac ctttgatctt g 21
279 <210> SEQ ID NO: 30
280 <211> LENGTH: 21
281 <212> TYPE: DNA
282 <213> ORGANISM: Influenza virus type A PA segment A/WSN/33HIN1) strain
284 <400> SEQUENCE: 30
285 aagcaattga ggagtgcctg a 21
288 <210> SEQ ID NO: 31

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289 <211> LENGTH: 21
290 <212> TYPE: DNA
291 <213> ORGANISM: Influenza virus type A PA segment
293 <400> SEQUENCE: 31
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297 <210> SEQ ID NO: 32
298 <211> LENGTH: 21
299 <212> TYPE: DNA
300 <213> ORGANISM: Influenza virus type A PA segment
302 <400> SEQUENCE: 32
303 aatgcttctt ggttcaactc c 21
306 <210> SEQ ID NO: 33
307 <211> LENGTH: 21
308 <212> TYPE: DNA
309 <213> ORGANISM: Influenza virus type A HA segment
311 <400> SEQUENCE: 33
312 ttggagccat tgccggtttt a 21
315 <210> SEQ ID NO: 34
316 <211> LENGTH: 21
317 <212> TYPE: DNA
318 <213> ORGANISM: Influenza virus type A HA segment
320 <400> SEQUENCE: 34
321 ggagccattg ccggttttat t 21
324 <210> SEQ ID NO: 35
325 <211> LENGTH: 21
326 <212> TYPE: DNA
327 <213> ORGANISM: Influenza virus type A HA segment
329 <400> SEQUENCE: 35
330 aatgggactt atgattatcc c 21
333 <210> SEQ ID NO: 36
334 <211> LENGTH: 21
335 <212> TYPE: DNA
336 <213> ORGANISM: Influenza virus type A NP segment
338 <400> SEQUENCE: 36
339 aatcactcac tgagtgcacat c 21
342 <210> SEQ ID NO: 37
343 <211> LENGTH: 21
344 <212> TYPE: DNA
345 <213> ORGANISM: Influenza virus type A NP segment
347 <400> SEQUENCE: 37
348 aatcatggcg tcccaaggca c 21
351 <210> SEQ ID NO: 38
352 <211> LENGTH: 21
353 <212> TYPE: DNA
354 <213> ORGANISM: Influenza virus type A NP segment
356 <400> SEQUENCE: 38
357 aatagagaga atggtgctct c 21
360 <210> SEQ ID NO: 39
361 <211> LENGTH: 21

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/02/2004
PATENT APPLICATION: US/10/674,159A TIME: 11:00:55

Input Set : A:\Mit-0506.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:179,180,181,182,183,184,187,270

VERIFICATION SUMMARY

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Input Set : A:\Mit-0506.ST25.txt

Output Set: N:\CRF4\08022004\J674159A.raw

L:945 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:95
L:957 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:96
L:969 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:97
L:981 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:98
L:993 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:99
L:1005 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:100
L:1017 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:101
L:1029 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:102
L:1041 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:103
L:1053 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:104
L:1065 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:105
L:1077 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:106
L:1089 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:107
L:1101 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:108
L:1140 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:112
L:1152 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:113
L:1164 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:114
L:1176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:115
L:1188 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:116
L:1200 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:117
L:1212 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:118
L:1224 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:119
L:1236 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:120
L:2455 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:150
L:2467 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:151
L:2479 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:152
L:2493 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:153
L:2505 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:154
L:2517 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:155
L:2529 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:156
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L:2580 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:160
L:2595 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:161
L:2607 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:162
L:2619 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:163
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L:2691 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:169
L:2703 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:170
L:2715 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:171
L:2727 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:172
L:2739 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:173
L:2751 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:174

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Input Set : A:\Mit-0506.ST25.txt

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L:2787 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:177
L:2799 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:178
L:3911 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:271